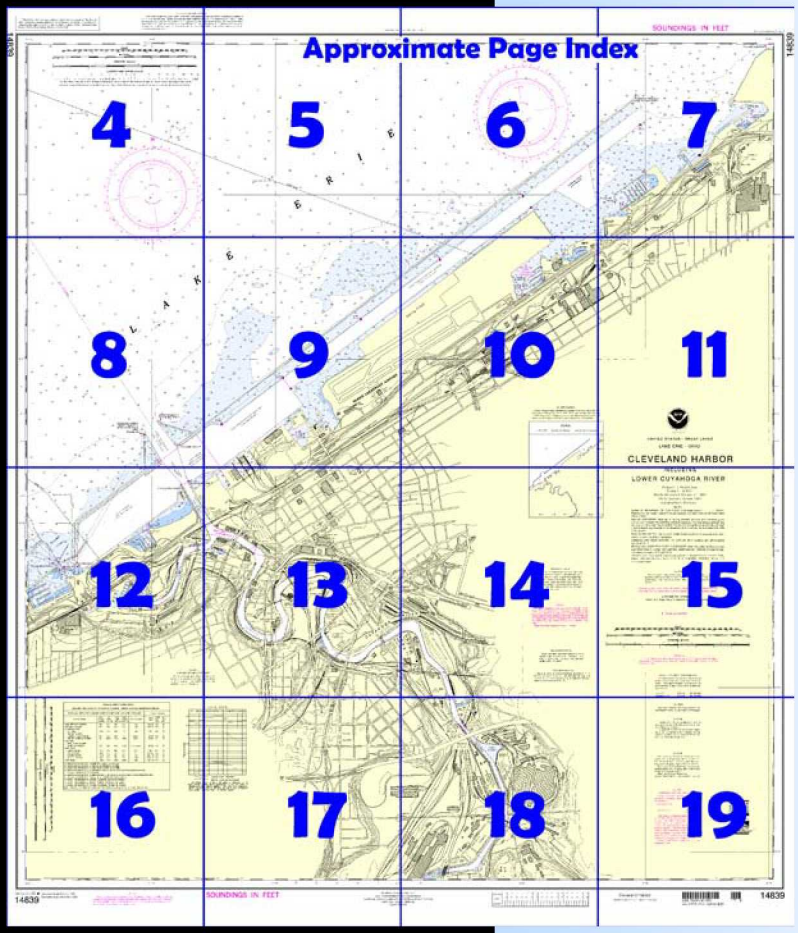
BookletChart™

Cleveland Harbor

(NOAA Chart 14839)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ *Complete, reduced scale nautical chart*
- ☑ *Print at home for free*
- ☑ *Convenient size*
- ☑ *Up to date with all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

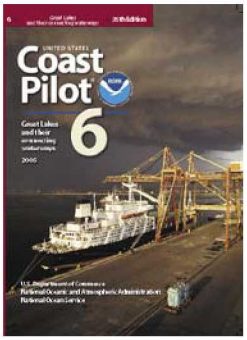
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 6, Chapter 6 excerpts]

(342) **Cleveland Harbor**, about 175 miles SW of Buffalo and 95 miles E of Toledo, consists of an outer harbor formed by breakwaters and an inner harbor made up of the **Cuyahoga River,** and the **Old River** which was the original outflow channel of the Cuyahoga River. The city of **Cleveland, Ohio,** is one of the major industrial centers on Lake Erie.

(343) The major commodities handled at the port are iron, steel, and aluminum products; limestone, iron ore, sand, stone, salt, and other minerals; petroleum products and other liquid bulk cargo; and general and containerized cargo in the foreign trade.

(344) Vessels calling at Cleveland Harbor may obtain information on river traffic by contacting the Great Lakes Towing Co. dispatcher on VHF-FM channels 16 or 10, or by radiotelephone through a land station, telephone, 800-321-3663.

(346) The most prominent objects when approaching Cleveland Harbor are the Municipal Stadium 0.7 mile E of the mouth of the Cuyahoga River, the Federal Office Building and the Erieview Plaza Tower about 1.1 miles E of the mouth, the Terminal Tower 1 mile SE of the mouth, and the lighted "W" sign 3.3 miles W of the mouth on the lakefront.

(373) A **Marine Safety Office,** a **vessel documentation office,** and the headquarters of the Ninth Coast Guard District are at Cleveland. (See appendix for addresses.) **Cleveland Coast Guard Station** is on the S side of the outer harbor just W of Burke Lakefront Airport.

(374) Federal regulations specify a **speed limit** of 6 mph in the harbor except in the outer harbor where the speed limit is 10 mph. (See **33 CFR 162.160 and 207.570,** chapter 2, for regulations.) However, the city of Cleveland has adopted a lesser **speed limit** of no wake, 4 mph in the Cuyahoga River and Old River. During fog or when a blue light or flag is shown from any pier, wharf, bridge or other place where person or property may be endangered, a **speed limit** of 2 mph is enforced.

(375) Local harbor regulations are established by the city of Cleveland and enforced by the **harbormaster** who can be contacted at Water Control Laboratory, New West Pier, Whiskey Island, c/o Water Control Laboratory, 1201 Lakeside Avenue, Cleveland, Ohio 44114. Copies of the regulations can be obtained from the Office of the City Clerk, Room 216, City Hall, 601 Lakeside Avenue, Cleveland, Ohio 44114.

(405) All types of marine supplies and provisions are available at Cleveland. Vessels normally receive bunker and diesel fuels at their berths from self-propelled vessels.

(406) The Halvorsen Boiler and Engineering Company maintains portable equipment for making repairs to vessels at their berths and a machine shop capable of producing shafts 16 feet by 14 inches. G and W Industries, Inc. has a berth on the S side of the river above the Carter Road bridge with a 60-ton crane and floating cranes to 35 tons. They produce shafts up to 12 feet by 36 inches. The above repair companies are on the Cuyahoga River and provide all types of above- the-waterline repairs to vessels in Cleveland harbor.

(407) Great Lakes Towing Company's facility is in Old River and has a 250-ton floating drydock, a heavy lift crane, and complete machinery facilities for above and below-waterline repairs of all types.

(408) Several marinas on the lakefront provide transient berths, gasoline, diesel fuel, water, ice, electricity, launching ramps, and sewage pump-out. Hoists to 40 tons can handle 65-foot vessels for hull, engine, and electronic repairs. A boatyard at the upper end of Old River has a travellift and crane with capacities to 20 tons, and can make small-craft repairs of all kinds. Marine supplies and provisions are available in the city and at several marine supply companies on the Cuyahoga River. Numerous marinas are along the banks of Old River and Cuyahoga River.

Table of Selected Chart Notes

Ⓟ Pump-out facilities

Corrected through NM Oct. 24/09
Corrected through LNM Oct. 13/09

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area *Cable Area*

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.189" northward and 0.536" eastward to agree with this chart.

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Akron, OH	KDO-94	162.400 MHz
Cleveland, OH	KHB-59	162.550 MHz
Grafton,OH	WNG-698	162.500 MHz

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers in Buffalo, New York.

Refer to charted regulation section numbers.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

Most of the hydrography identified by the letter Y was surveyed by the U.S. Army Corps of Engineers prior to 1974. Channels currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE

Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Canadian Shipowners Association.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

AUTHORITIES. Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey and U. S. Coast Guard.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) ..... 569.2 ft. Referred to mean water level at Rimouski, Quebec, Canada, International Great Lakes Datum (1985).

SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure. The true bearing between any two points on this chart may be determined by connecting the two points with a straight line and measuring the angle of its intersection with a meridian line at or near the middle of the course.

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

CLEVELAND HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2008 AND REPORTS TO MAY 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (FEET)	DEPTH LWD (FEET)
HARBOR ENTRANCE	27.3	29.0	29.0	25.2	4, 5-08	600-700	1150	29
BASINS & CUYAHOGA RIVER ENTRANCE	26.1	28.0	28.0	24.5	4, 5-08	230-760	1200	28
CUYAHOGA RIVER								
PIER RANGE	19.4	26.1	27.4	18.4	4-08	230	1700	27
THENCE TO HOPE MEMORIAL BRIDGE	A12.6	15.9	18.5	7.7	4-08	180-700	11800	23
THENCE TO END OF PROJECT	B11.4	C19.6	D17.6	E10.1	4-08	110-400	15600	23
OLD RIVER								
FROM CUYAHOGA RIVER TO END OF PROJECT	12.7	20.1	19.5	F11.1	4-08	120-200	6010	27
EAST BASIN								
EAST SECTION (G.)	17.2	22.6	22.7	19.2	4, 5-08	500	14600	25
NICHOLSON APPROACH	24.4	24.8	22.4	22.4	6-07; 4, 5-08	400-1600	1300	25
MIDDLE SECTION (H.)	17.9	21.1	21.9	21.6	4, 5-08	1270-1560	3800	27
WEST SECTION	18.7	22.7	27.7	24.8	4, 5-08	1560	1300	28
WEST BASIN	23.6	19.5	22.0	18.4	4, 5-08	800-1560	4400	28
WESTERLY 400 FEET	17.4	15.8	14.7	14.4	4, 5-08	330-800	400	28

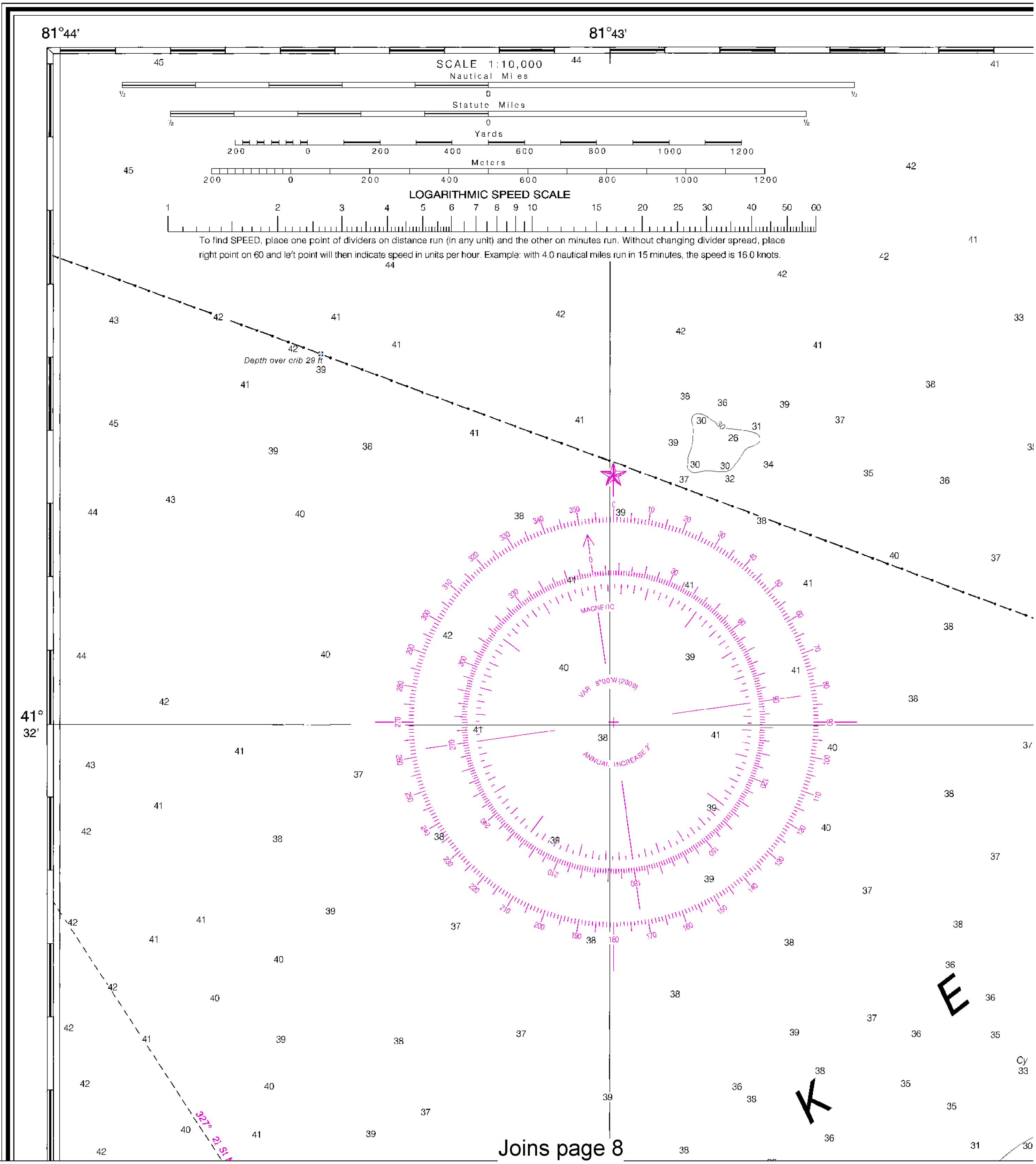
A. EXCEPT FOR SHOALING TO 7.2 FEET AT 41°29'55.6"N 081°42'17.7"W.
B. EXCEPT FOR SHOALING TO 9.6 FEET FROM 41°29'22.2"N 081°41'36.2"W TO 41°29'21.4"N 081°41'36.2"W. AND 7.5 FEET FROM 41°29'21.8"N 081°41'01.1"W TO 41°29'22.6"N 081°40'59.6"W AND 8.9 FEET IN LAST 150 FEET OF PROJECT.
C. EXCEPT FOR SHOALING TO 8.9 FEET FROM 41°27'53.5"N 081°40'32.5"W TO END OF PROJECT.
D. EXCEPT FOR SHOALING TO 9.3 FEET FROM 41°27'53.7"N 081°40'33.2"W TO END OF PROJECT.
E. EXCEPT FOR SHOALING TO 2.7 FEET FROM 41°29'10.8"N 081°40'47.3"W TO 41°29'09.5"N 081°40'46.0"W. AND 2.6 FEET FROM 41°27'54.9"N 081°40'26.8"W OUTSIDE EDGE TO END OF PROJECT.
F. EXCEPT FOR SHOALING TO 9.0 FEET AT 41°29'51.2"N 081°42'44.0"W.
G. TRAFFIC FLOWS IN EAST BASIN EAST SECTION FROM EAST TO WEST.
H. TRAFFIC FLOWS IN EAST BASIN MIDDLE SECTION FROM WEST TO EAST.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

14839



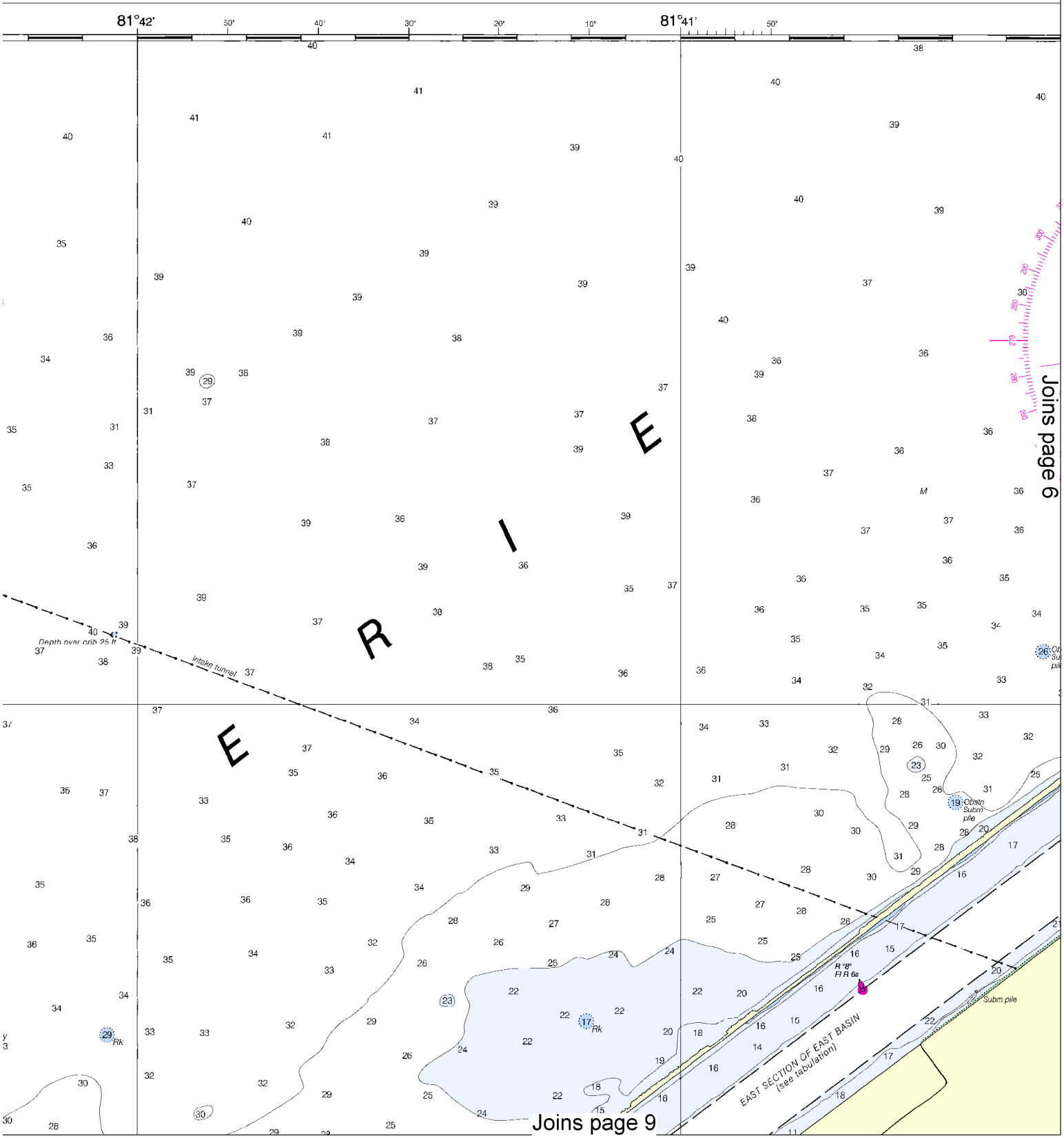
Printed at reduced scale. SCALE 1:10,000 See Note on page 5.

Nautical Miles

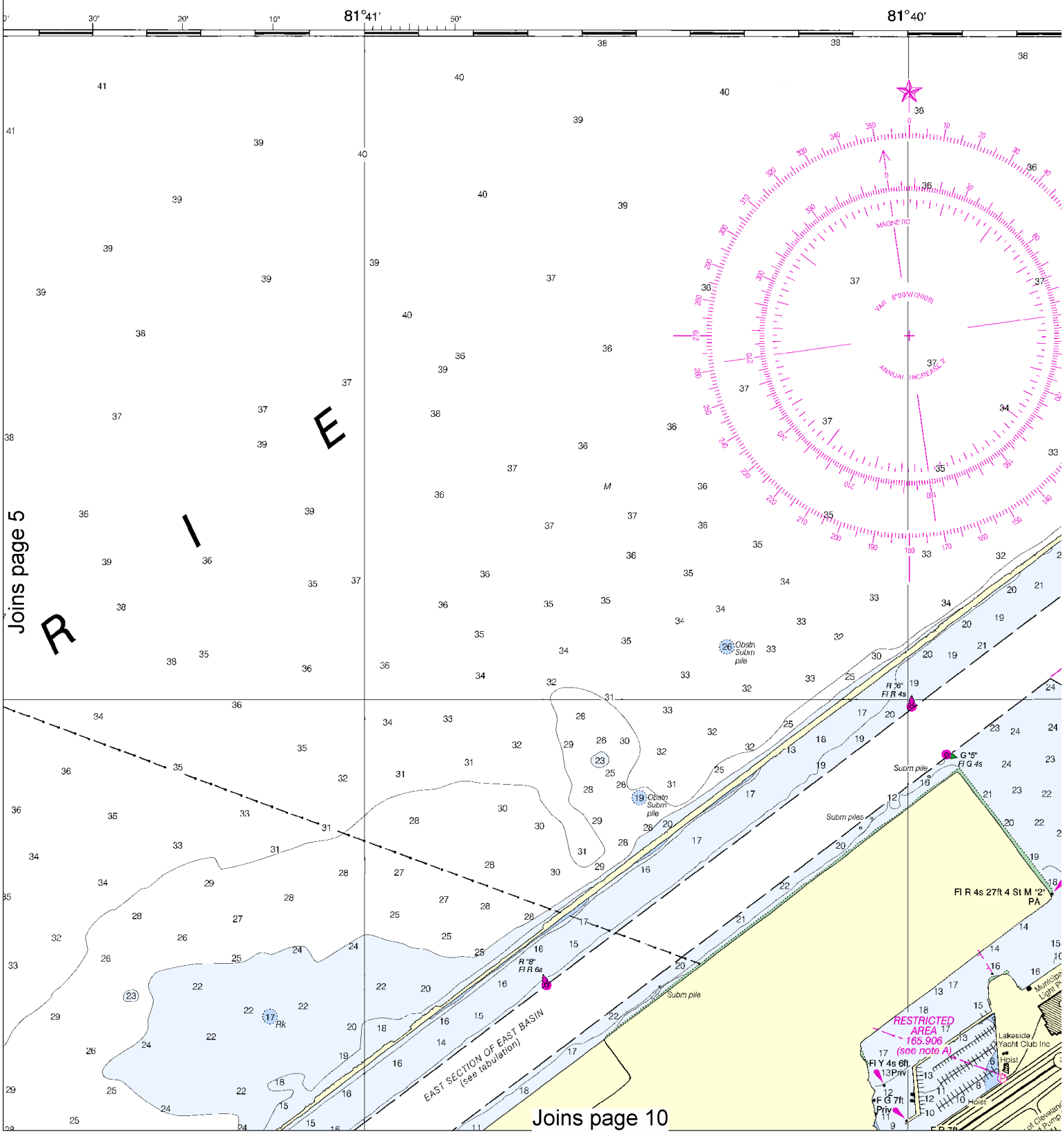
Yards

200 0 200 400 600 800 1000 1200

North



This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:13333. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.



North

Printed at reduced scale. ~~SCALE 1:10,000~~

Nautical Miles

0

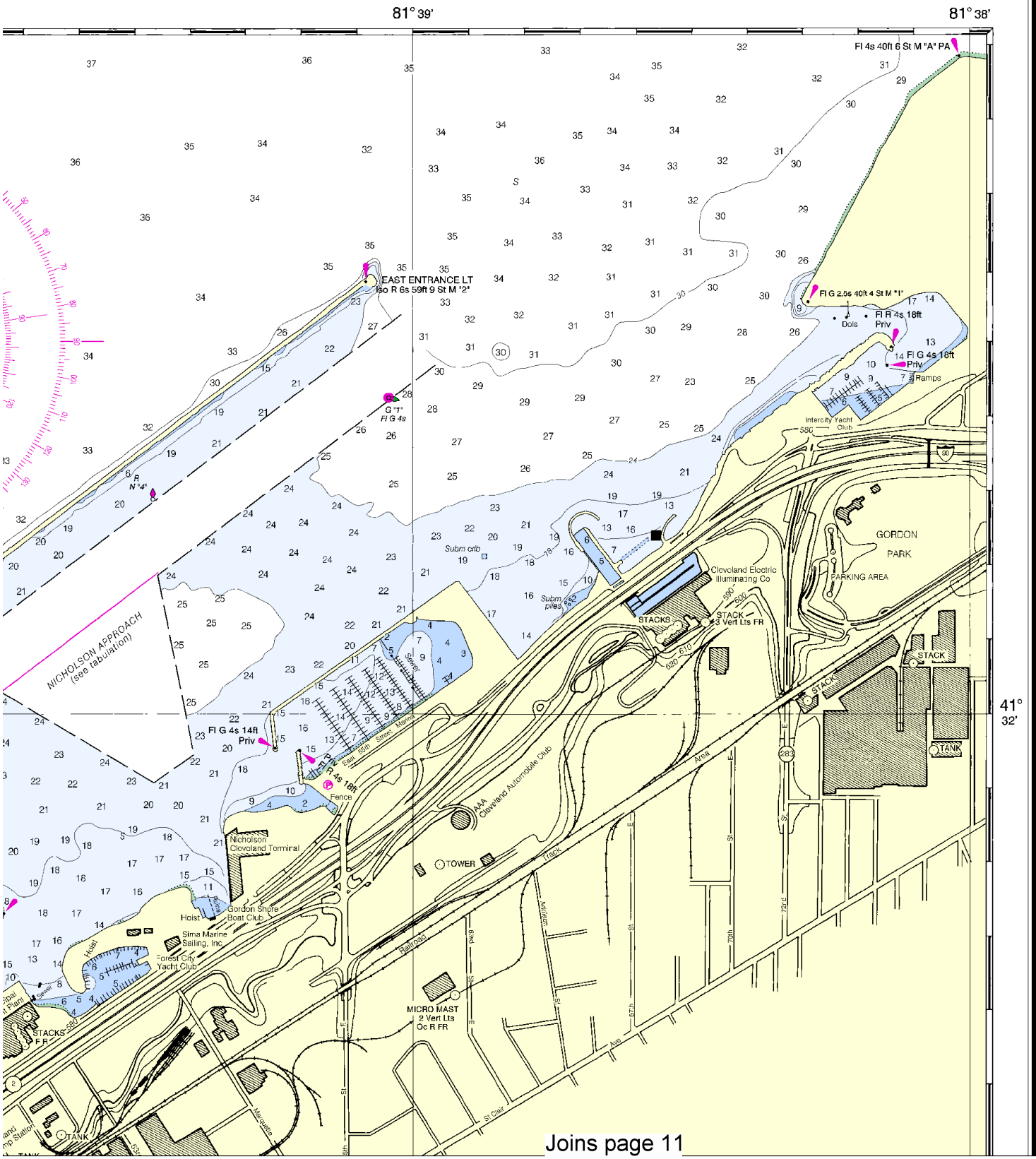
Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.

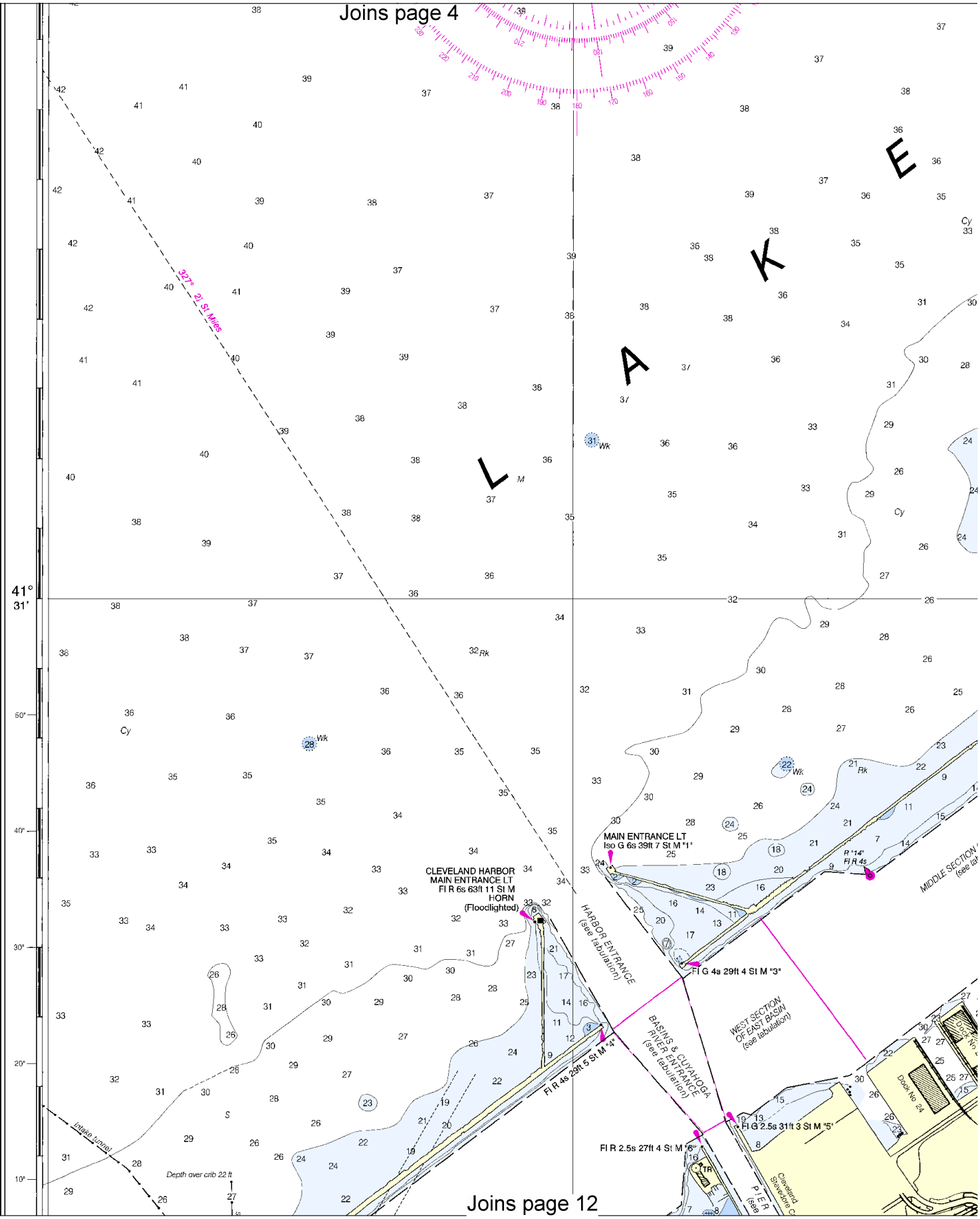
SOUNDINGS IN FEET

14839



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: 0110 1/29/2010.

Joins page 4



Joins page 12

North

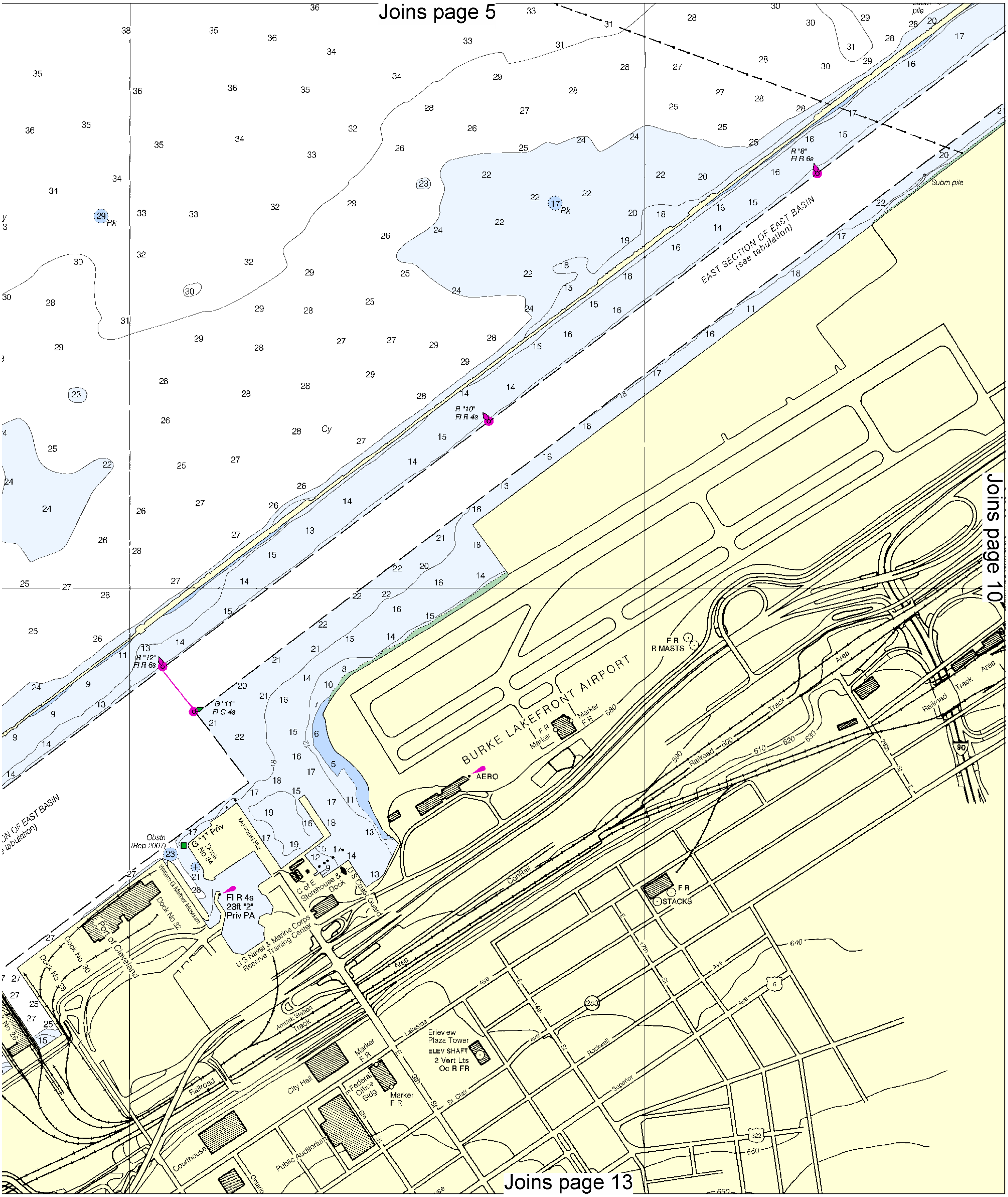
Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

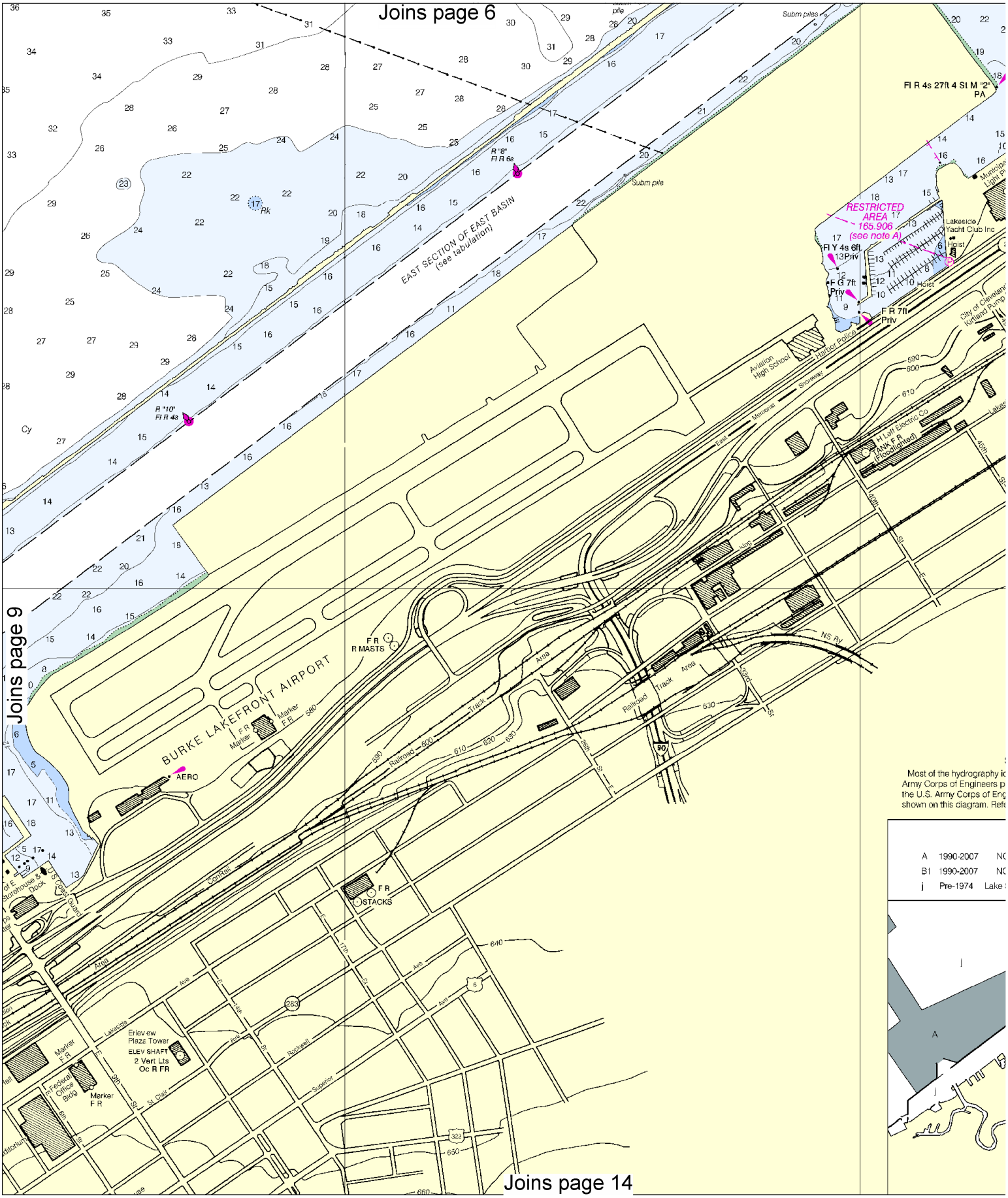
Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200


Joins page 5
Joins page 10
Joins page 13
EAST SECTION OF EAST BASIN
(see tabulation)
R "8"
Fl R 6s
R "10"
Fl R 4s
R "12"
Fl R 6s
G "11"
Fl G 4s
Subm pile
BURKE LAKEFRONT AIRPORT
F R
R MASTS
Marker
F R
AERO
Obstn
(Rep 2007)
G "1" Priv
Dock No 34
Municipal Pier
Fl R 4s
23ft "2"
Priv PA
William G Mather Museum
Dock No 32
Port of Cleveland
Dock No 30
Dock No 28
U S Naval & Marine Corps
Reserve Training Center
C of E
Storehouse & Dock
U S Coast Guard
ConRail
Railroad
Track
Area
F R
STACKS
Erieview
Plaza Tower
ELEV SHAFT
2 Vert Lts
Oc R FR
Marker
F R
City Hall
Federal
Office
Bldg
Courthouse
Public Auditorium
Amtrak Station
Lakeside
Ave
St Clair
Superior
Rockwell
9th
St
6th
E
14th
17th
26th
Ontario
Cy
Rk
590
600
610
620
630
640
650
660
283
322
6
90



North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

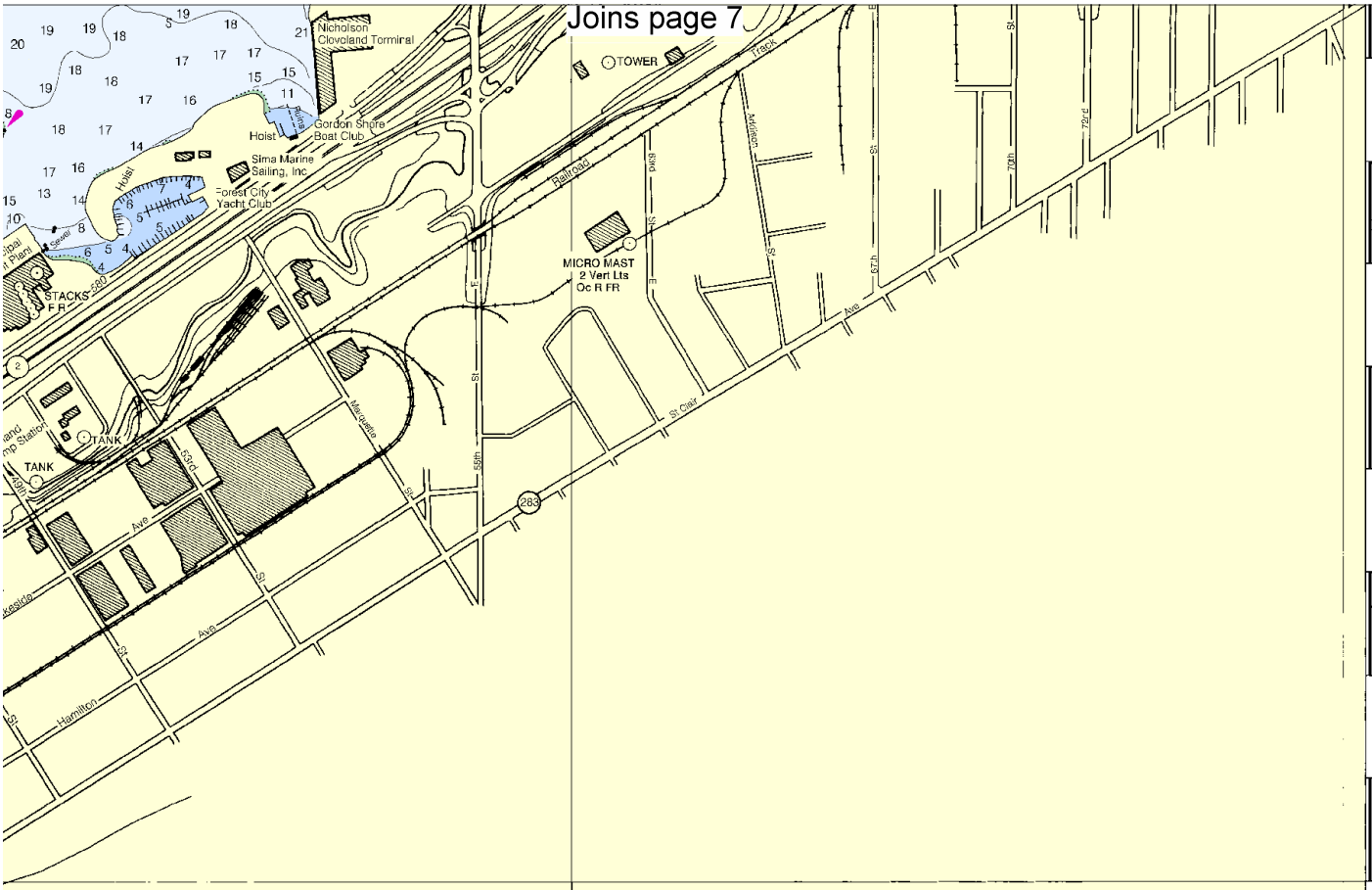
Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200

Joins page 7



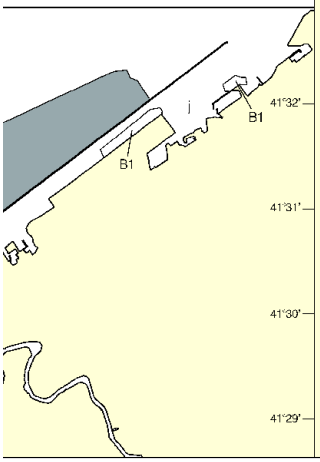
41° 31'

50'
40'
30'
20'
10'

SOURCE DIAGRAM

y identified by the letter "j" was surveyed by the U.S.
s prior to 1974. Channe s currently maintained by
ngineers are periodically resurveyed and are not
efer to Chapter 1, United States Coast Pilot.

SOURCE	
NOS Surveys	full bottom coverage
NOS Surveys	partial bottom coverage
e Survey Surveys	partial bottom coverage



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE ERIE - OHIO

CLEVELAND HARBOR

INCLUDING

LOWER CUYAHOGA RIVER

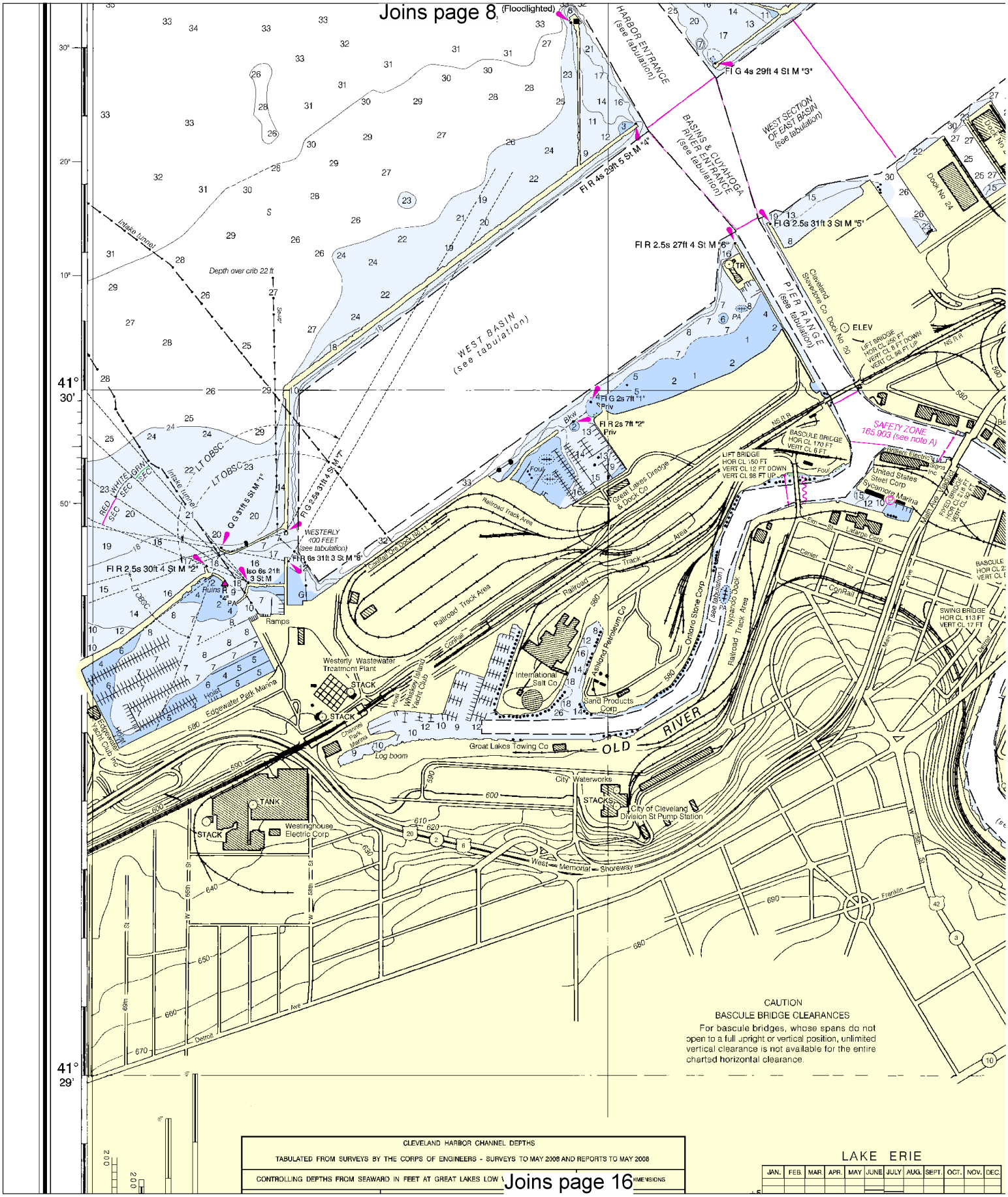
Polyconic Projection
Scale 1:10,000

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

Additional information can b oaa.gov.

Joins page 15



North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles 0

Yards 200 0 200 400 600 800 1000 1200


Joins page 9
Joins page 14
Joins page 17
Fl R 4s
23ft "2"
Priv PA
Port of Cleveland
Dock No 32
Dock No 30
Dock No 28
U S Naval & Marine Corps
Reserve Training Center
STACKS
Amtrak Station
Erieview
Plaza Tower
ELEV SHAFT
2 Vert Lts
Oc R FR
City Hall
Federal
Office
Bldg
Marker
F R
Courthouse
Public Auditorium
U S Court & Customhouse
Standard Oil
Co
PUBLIC
SQUARE
Union Station
TERMINAL TR
2 Vert Lts F R
(Floodlighted)
Beacon Hausheer
Marine Co
Work Bench
Frank Morrison & Son Co
Moses
Cleveland
Landing
Sherwin
Williams Co
SAFETY ZONE
165.903
(see note A)
LIFT BRIDGES
HOR CL 200 FT
VERT CL 22 FT DOWN
VERT CL 97 FT UP
C F D Fire Tug Slip
G & W Industries Inc
State Fish Inc
FIXED BRIDGE
HOR CL 113 FT
VERT CL 98 FT
Cereal Food
Processors Inc
Eagle-Scranton Corp
LIFT BRIDGE
HOR CL 187 FT
VERT CL 15 FT DOWN
VERT CL 97 FT UP
Cleveland Electric
Illuminating Co
R MAST
LIFT BRIDGE
HOR CL 200 FT
VERT CL 8 FT DOWN
VERT CL 97 FT UP
SILOS
Commodore's
Marina Club
UpRiver Commercial
Complex
Cranwood
Trucking Co Inc
Mid Continent
Coke and
Coal Co
Hope Memorial Bridge
FIXED BRIDGE
HOR CL 175 FT
VERT CL 96 FT
Ford Motor Co
Cleveland
Foundry Dock
CUYAHOGA RIVER
OVHD PWR CAB
AUTH CL 124 FT
Ontario Stone Corp
Marathon Oil
Tanks
ELEV
FIXED BRIDGE
HOR CL 200 FT
VERT CL 98 FT
LIFT BRIDGE
HOR CL 220 FT
VERT CL 17 FT DOWN
VERT CL 98 FT UP
LIFT BRIDGE
HOR CL 200 FT
VERT CL 64 FT DOWN
VERT CL 97 FT UP
Cleveland Bldrs
Supply Co
Allied
Corporation
Inc
Buckeye Terminals
Inland Waters of Ohio
FIXED BRIDGE
HOR CL 230 FT
VERT CL 97 FT
Distribution Terminal
Warehouse Inc
Middleport
Terminal
Inc
Conrail
CHY
St Mary's Cement
Marathon Oil
Piles
(see tabulation)
Lorain Ave
Abbey Ave
Railway Ave
Euclid Ave
Prospect
Carnegie
Superior Ave
St Clair
Lakeside Ave
Rockwell
Inner Belt Freeway

North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles 0

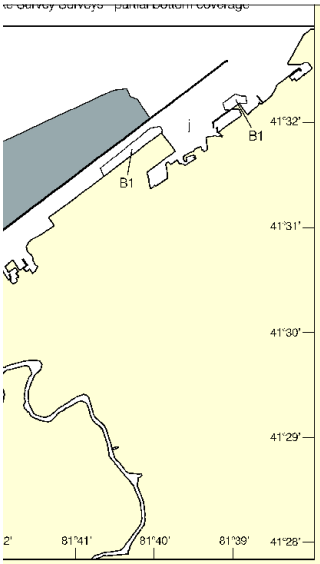
Yards 200 0 200 400 600 800 1000 1200

Joins page 11

CLEVELAND HARBOR

INCLUDING

LOWER CUYAHOGA RIVER



Polyconic Projection
Scale 1:10,000

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

Additional information can be obtained at naut calcharts.noaa.gov.

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) ..... 569.2 ft. Referred to mean water level at Rimouski, Quebec, Canada, International Great Lakes Datum (1985).

SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure. The true bearing between any two points on this chart may be determined by connecting the two points with a straight line and measuring the angle of its intersection with a meridian line at or near the middle of the course.

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

AUTHORITIES. Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey and U. S. Coast Guard.

ZONTAL DATUM
eference datum of this chart
Datum of 1983 (NAD 83), which
ses is considered equivalent
otic System 1984 (WGS 84).
tions referred to the North
f 1927 must be corrected an
orthward and 0.536" eastward
chart.

NOTE A
ns are published in Chapter 2, U.S.
s or revisions to Chapter 2 are pub-
Mariners. Information concerning
obtained at the Office of the Com-
rd District in Cleveland, Ohio or at
t Engineer, Corps of Engineers in
gulation section numbers.

AR REFLECTORS
rs have been placed on many
navigation. Individual radar
cation on these aids has been
s chart.

LLUTION REPORTS
f oil and hazardous substances to the
enter via 1-800-424-8802 (toll free), or
oast Guard facility if telephone com-
ible (33 CFR 153).

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Canadian Shipowners Association.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 6 for important supplemental information.

Ⓟ Pump-out facilities

SCALE 1:10,000

Nautical Miles
½ 0 ½

Statute Miles
½ 0 ½

Yards
200 0 200 400 600 800 1000 1200

Meters
200 0 200 400 600 800 1000 1200

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Akron, OH	KDO-94	162.400 MHz
Cleveland, OH	KHB-59	162.550 MHz
Grafton,OH	WNG-698	162.500 MHz

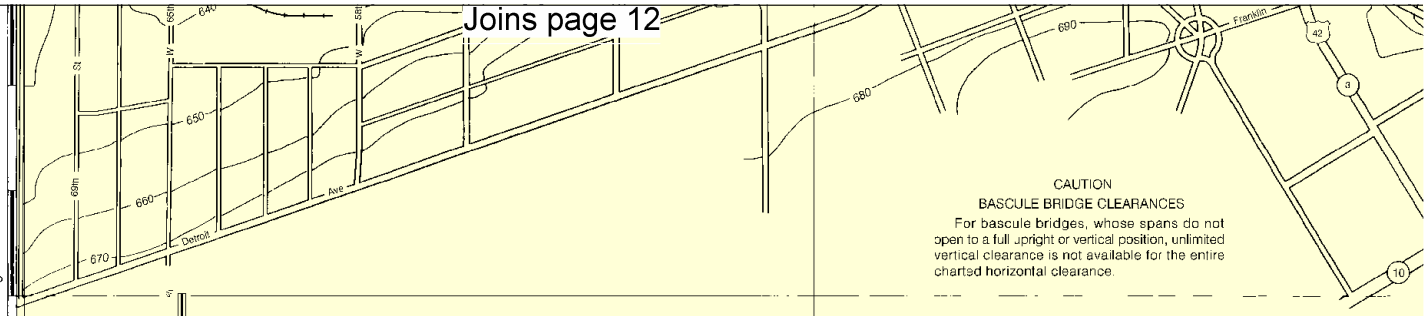
CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

Joins page 19

30'
20'
10'
41° 30'
50"
41° 29'

Joins page 12



CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

41° 29'

41° 28'

81°44'

81°43'

SCALE 1:10,000

Nautical Miles 0 ½

Statute Miles 0 ½

Yards 0 200 400 600 800 1000 1200

Meters 200 0 200 400 600 800 1000 1200

CLEVELAND HARBOR CHANNEL DEPTHS

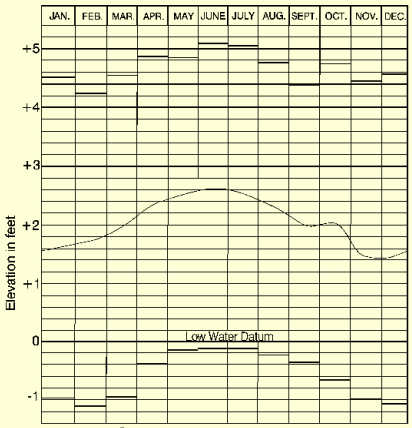
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2008 AND REPORTS TO MAY 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (FEET)	DEPTH LWD (FEET)
HARBOR ENTRANCE	27.3	29.0	29.0	25.2	4, 5-08	600-700	1150	29
BASINS & CUYAHOGA RIVER ENTRANCE	26.1	28.0	28.0	24.5	4, 5-08	230-760	1200	28
CUYAHOGA RIVER								
PIER RANGE	19.4	25.1	27.4	18.4	4-08	230	1700	27
THENCE TO HOPE MEMORIAL BRIDGE	A12.6	15.9	18.5	7.7	4-08	180-700	11800	23
THENCE TO END OF PROJECT	B11.4	C19.6	D17.6	E10.1	4-08	110-400	15600	23
OLD RIVER								
FROM CUYAHOGA RIVER TO END OF PROJECT	12.7	20.1	19.5	F11.1	4-08	120-200	5010	27
EAST BASIN								
EAST SECTION (G.)	17.2	22.6	22.7	19.2	4, 5-08	500	14600	25
NICHOLSON APPROACH	24.4	24.8	22.4	22.4	6-07; 4, 5-08	400-1600	1300	25
MIDDLE SECTION (H.)	17.9	21.1	21.9	21.6	4, 5-08	1270-1560	3800	27
WEST SECTION	18.7	22.7	27.7	24.8	4, 5-08	1560	1300	28
WEST BASIN	23.6	19.5	22.0	18.4	4, 5-08	800-1560	4400	28
WESTERLY 400 FEET	17.4	15.8	14.7	14.4	4, 5-08	330-800	400	28

A. EXCEPT FOR SHOALING TO 7.2 FEET AT 41°29'55.6"N 081°42'17.7"W.
B. EXCEPT FOR SHOALING TO 9.6 FEET FROM 41°29'22.2"N 081°41'36.2"W TO 41°29'21.4"N 081°41'36.2"W. AND 7.5 FEET FROM 41°29'21.6"N 081°41'01.1"W TO 41°29'22.6"N 081°40'59.6"W AND 8.9 FEET IN LAST 150 FEET OF PROJECT.
C. EXCEPT FOR SHOALING TO 8.9 FEET FROM 41°27'53.5"N 081°40'32.5"W TO END OF PROJECT.
D. EXCEPT FOR SHOALING TO 9.3 FEET FROM 41°27'53.7"N 081°40'33.2"W TO END OF PROJECT.
E. EXCEPT FOR SHOALING TO 2.7 FEET FROM 41°29'10.6"N 081°40'47.3"W TO 41°29'09.5"N 081°40'46.0"W. AND 2.6 FEET FROM 41°27'54.9"N 081°40'26.8"W OUTSIDE EDGE TO END OF PROJECT.
F. EXCEPT FOR SHOALING TO 9.0 FEET AT 41°29'51.2"N 081°42'44.6"W.
G. TRAFFIC FLOWS IN EAST BASIN EAST SECTION FROM EAST TO WEST.
H. TRAFFIC FLOWS IN EAST BASIN MIDDLE SECTION FROM WEST TO EAST.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

LAKE ERIE



Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

37th Ed., Oct./ 09 ■ Corrected through NM Oct. 24/09
Corrected through LNM Oct. 13/09

14839

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

SOUNDINGS

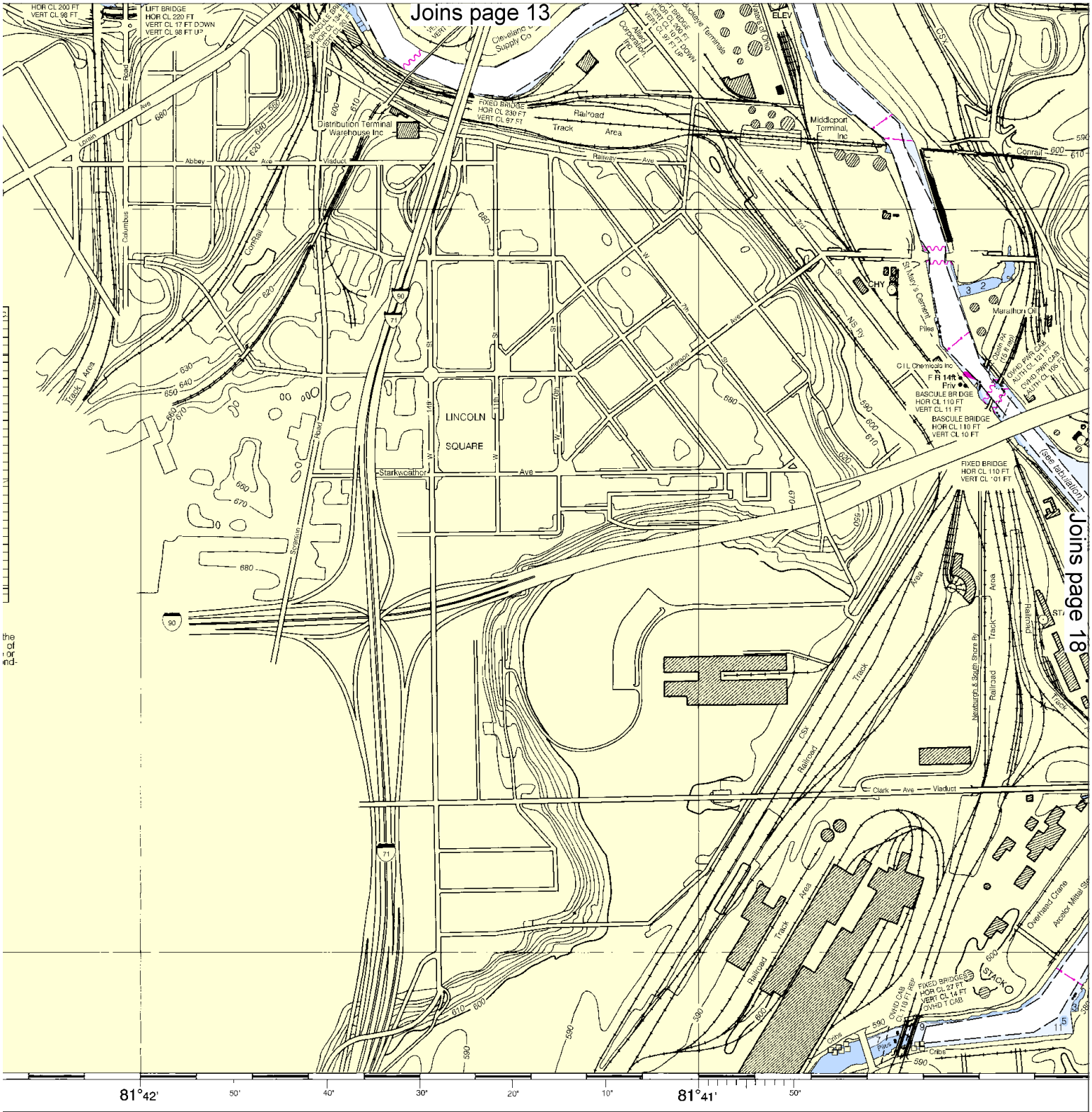
16

North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

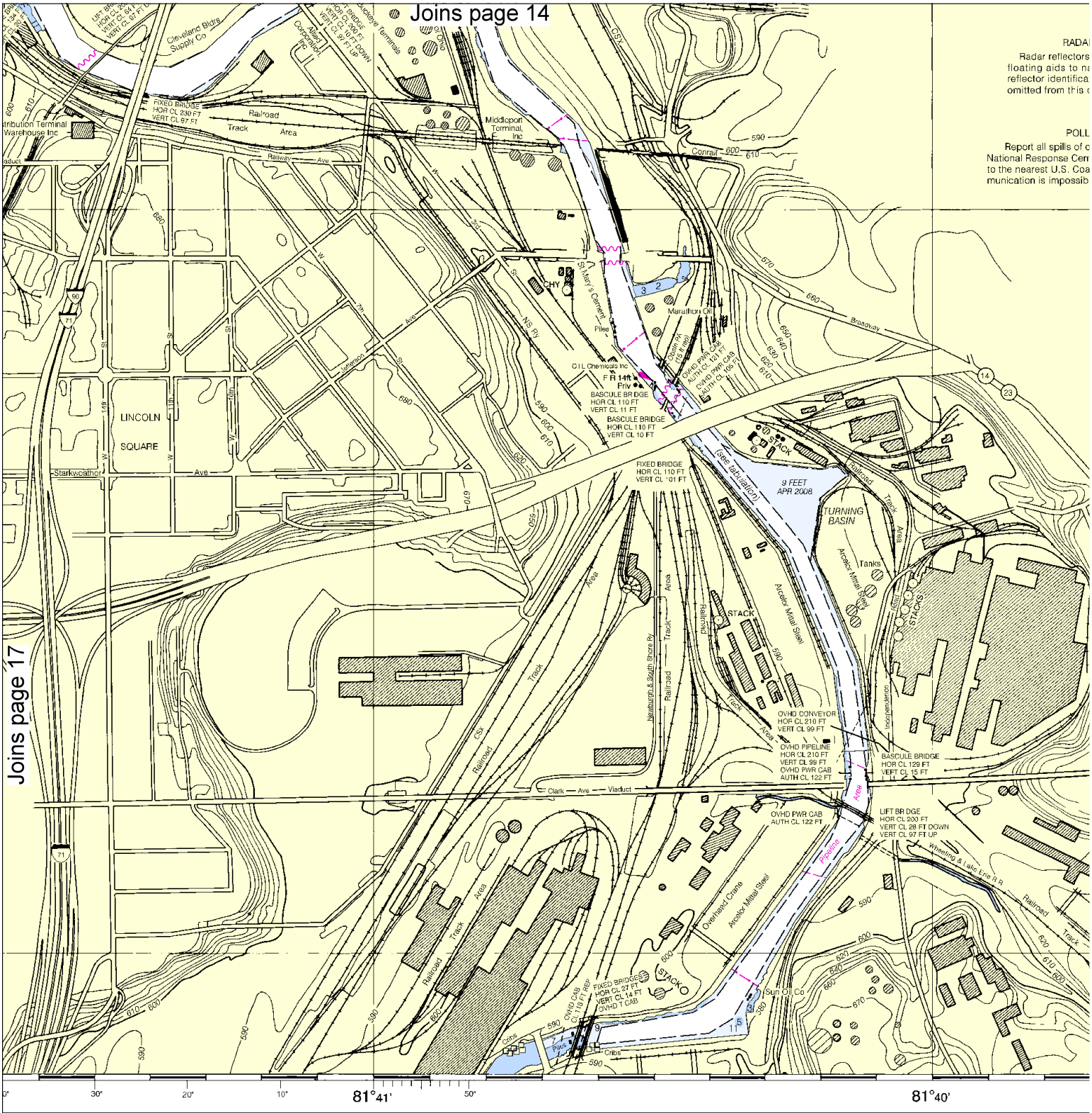
Nautical Miles 0

Yards 200 0 200 400 600 800 1000 1200



S IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY



Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0

Yards
200 0 200 400 600 800 1000 1200

Joins page 15

200 0 meters 600 800 1000 1200

200 0 200 400 600 800 1000 1200

)AR REFLECTORS

)rs have been placed on many navigation. Individual radar cation on these aids has been s chart.

LLUTION REPORTS

f oil and hazardous substances to the enter via 1-800-424-8802 (toll free), or oast Guard facility if telephone com- ible (33 CFR 153).

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Akron, OH	KDO-94	162.400 MHz
Cleveland, OH	KHB-59	162.550 MHz
Grafton,OH	WNG-698	162.500 MHz

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to nav gation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area *Cable Area*

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

41° 29'

41° 28'

81°39' 81°38'

940.0 X 840.2 mm

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Cleveland Harbor

SOUNDINGS IN FEET - SCALE 1:10,000

14839

ED NO. 37

NGN 76420114010661

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Search & Rescue (RCC) – 216-902-6117
Coast Guard Search & Rescue (Detroit) – 313-568-9524 or 313-568-9560

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

NOAA, The Nation's Chartmaker

NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs™) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts™ – BookletCharts™ are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts™ – PocketCharts™ are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.